

I. Listing of Claims:

1. (Currently amended) A paint mixture including a chemical composition that inhibits corrosion in metal substrates when applied thereto, said chemical composition comprising:

a first complexing agent comprising an amine group; and

a second complexing agent comprising a carboxylic acid;

wherein the first complexing agent is an alkylamine selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine.

2. (Canceled)

3. (Previously presented) The paint mixture of Claim 1, wherein the alkylamine is 3-methoxypropylamine.

4. (Canceled)

5. (Previously presented) The paint mixture of Claim 1, wherein the alkylamine is 4-ethylmorpholine.

6. (Currently amended) The paint mixture of Claim 1, wherein the alkylamine is ~~selected from the group consisting of~~ dimethylaminopropylamine ~~and aminopropylmorpholine.~~

7. (Previously presented) The paint mixture of Claim 1, wherein said second complexing agent is benzoic acid.

8. (Previously presented) The paint mixture of Claim 1, further comprising a pH adjusting agent.

9. (Previously presented) The paint mixture of Claim 8, wherein said pH adjusting agent is ammonium hydroxide.

10. (Previously presented) The paint mixture of Claim 1, wherein said first complexing agent and said second complexing agent react to form a stable aminocarboxylate salt.

11-16. (Canceled)

17. (Previously presented) A paint mixture including a corrosion inhibiting chemical composition comprising:

water;

an amine complexing agent;

a carboxylic acid complexing agent; and

a pH adjusting agent;

wherein said amine complexing agent is selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine; and

wherein the paint mixture inhibits the corrosion of metal when applied to a metal substrate.

18. (Canceled)

19. (Previously presented) The paint mixture of Claim 17, wherein said carboxylic acid complexing agent is benzoic acid.

20. (Previously presented) The paint mixture of Claim 17, wherein said pH adjusting agent is ammonium hydroxide.

21. (Previously presented) The paint mixture of Claim 17, wherein said chemical composition comprises approximately 50-80% by total formula weight water, approximately 2-20% by total formula weight amine complexing agent, approximately 5-20% by total formula

weight carboxylic acid complexing agent, and approximately 5-7% by total formula weight pH adjusting agent.

22. (Currently amended) A process of producing a paint mixture including a corrosion inhibitor comprising the steps of:

mixing together water and an amine complexing agent to create a first substance, wherein the amine complexing agent is an alkylamine selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine;

mixing together said first substance with a carboxylic acid complexing agent to create a second substance;

mixing together said second substance with a pH adjusting agent to create said corrosion inhibitor; and

incorporating the corrosion inhibitor into the paint mixture;

wherein the paint mixture inhibits the corrosion of metal when applied to a metal substrate.

23. (Canceled)

24. (Original) The process of Claim 22, wherein said carboxylic acid complexing agent is benzoic acid.

25. (Original) The process of Claim 22, wherein said pH adjusting agent is ammonium hydroxide.

26. (Original) The process of Claim 22, wherein said chemical composition comprises approximately 50-80% by total formula weight water, approximately 2-20% by total formula

weight amine complexing agent, approximately 5-20% by total formula weight carboxylic acid complexing agent, and approximately 5-7% by total formula weight pH adjusting agent.

27. (Previously presented) A process of making a paint mixture including a non-toxic corrosion inhibitor comprising the steps of providing in the paint mixture a non-toxic corrosion inhibitor comprising approximately 50-80% by total formula weight of water and adding approximately 2-20% by total formula weight of an amine complexing agent, approximately 5-20% by total formula weight of a carboxylic acid complexing agent, and approximately 5-7% by total formula weight of a pH adjusting agent, wherein said amine complexing agent is selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine; wherein the paint mixture inhibits the corrosion of metal when applied to a metal substrate.

28. (Previously presented) The process of Claim 27, further comprising the step of mixing said approximately 50-80% by total formula weight of water, 2-20% by total formula weight of said amine complexing agent, 5-20% by total formula weight of said carboxylic acid complexing agent, and 5-7% by total formula weight of said pH adjusting agent to create an aqueous mixture for incorporation into the paint mixture.

29. (Canceled)

30. (Original) The process of Claim 27, wherein said carboxylic acid complexing agent is benzoic acid.

31. (Previously presented) The process of Claim 28, further comprising the steps of:
transferring said aqueous mixture to a holding tank; and allowing said mixture to cool to room temperature prior to incorporation into the paint mixture.

32. (Canceled)

33. (Currently amended) A paint mixture, including a chemical composition that inhibits corrosion in metal substrates, said chemical composition comprising:

a first complexing agent comprising an amine group; and

a second complexing agent comprising a carboxylic acid;

wherein the first complexing agent is an alkylamine selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine;

wherein the paint mixture, when applied to a metal substrate, inhibits flash rusting of the metal.

34. (Previously presented) The paint mixture of Claim 1, wherein said paint mixture further includes a high gloss resin and wherein the chemical composition does not diminish the gloss.

35. (Previously presented) The paint mixture of Claim 1, wherein said paint mixture further includes a semi gloss resin and wherein the chemical composition does not diminish the gloss.

36. (Currently amended) A process of producing a paint mixture including a corrosion inhibitor comprising the steps of:

mixing together water and an amine complexing agent comprising an alkylamine to create a first substance, wherein the alkylamine is selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine;

mixing together said first substance with a carboxylic acid complexing agent to create said corrosion inhibitor; and

incorporating the corrosion inhibitor into the paint mixture;

wherein the paint mixture inhibits the corrosion of metal when applied to a metal substrate.

37. (Currently amended) A process of making a paint mixture including a non-toxic corrosion inhibitor comprising the steps of providing in the paint mixture a non-toxic corrosion inhibitor comprising approximately 50-80% by total formula weight of water and adding approximately 2-20% by total formula weight of an amine complexing agent comprising an alkylamine selected from the group consisting of 3-methoxypropylamine, 4-ethylmorpholine, dimethylaminopropylamine and aminopropylmorpholine and approximately 5-20% by total formula weight of a carboxylic acid complexing agent; wherein the paint mixture inhibits the corrosion of metal when applied to a metal substrate.

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (New) The paint mixture of Claim 1, wherein the alkylamine is aminopropylmorpholine.